



**CMSD BOARD OF DIRECTORS
OPERATIONS COMMITTEE**
Board of Directors Schedule for Attendance
Chairman Ferryman and Director Perry
Alternate: President Ooten

AGENDA

Tuesday, June 19, 2012 - 9:30 a.m.
Costa Mesa Sanitary District, 628 W 19th Street

STANDING REPORTS - RECYCLING

- I. **Recycling Report – May 2012**
 - Update on how CMSD is meeting AB 939 goals
- II. **Waste Diversion Report – May 2012**
 - Update on the amount of recycling materials diverted from the landfill
- III. **Ordinance Enforcement Officer's May Report**
 - Review OEO enforcement activities for trash cans, graffiti and scavenging
- IV. **Scavenging Report – May**
 - Review scavenging activities reported to CMPD
- V. **CMSD Facts and Figures**
 - Review and discuss facts and figures regarding solid waste and sewer in CMSD
- VI. **2012 Events Calendar**

NEW DISCUSSION ITEMS - RECYCLING

- VII. **Composting & Vermicomposting Events at OC Fair**
 - Review and discuss the District sponsored events at the 2012 OC Fair
- VIII. **SB 1118 (Hancock) – Support**
 - Discuss CMSD's support letter and status of bill that will attempt to stop illegal dumping of mattresses
- IX. **Trash Cans in the Alley – Oral Report**
 - Are trash cans in the alley considered to be in public view?

ACTION ITEMS - RECYCLING

- X. **None**

STANDING REPORTS – SEWER SYSTEM

- XI. **Monthly Spill Statistics – No CMSD sanitary sewer overflows (SSOs) to report**

NEW DISCUSSION ITEMS – SEWER SYSTEM

- XII. **CIP Timeline**
 - Review and discuss the timeline completion on several District CIP projects
- XIII. **City of Costa Mesa East Side Infrastructure Improvements**
 - Discuss District improvements on the East Side

ACTION ITEMS – SEWER SYSTEM

- XIV. **Inflow & Infiltration (I/I) Program**
 - Approve staff's plan for sealing and plugging manholes

XV. Sewer Cleaning Program

- Approve staff's proposal to clean sewer lines that will save approximately \$90,000 a year

CMSD PROJECTS:

XVI. A. Project #101 West Side Pumping Station Abandonment – Status

- CMSD District Engineer has begun preparing preliminary plans suitable for preparing accurate engineer's estimates for abandoning six pumping stations. District Engineer is working with OCSD consultant on items such as location and elevation of manhole where CMSD and CNB lines terminate in upstream end of OCSD trunk.

B. Project #129 Bristol Street Sewer Phase II – Status

- Work is continuing and is projected to be complete by June 26, 2012. Pipe bursting of the new pipe was completed on June 2, 2012.

C. Project #171 Irvine Pumping Station Force Main – Status

- The 12" HDPE liner was successfully installed with all work completed by June 8, 2012.

D. Project #190 Canyon Force Main Rehabilitation – Status

- Bids were opened on May 1, 2012 but no bids were received. Staff successfully negotiated a contract at an amount below the engineer's estimate with GCI Construction. GCI has successfully completed projects for the District including #171 Irvine Force Main Rehabilitation.

E. Project #192 System Wide Sewer Reconstruction Phase 2 – Status

- Final review of the plans and specs is occurring prior to placing the project out to bid.

F. Project #193 Pumping Station Seismic Study and Retrofit – Status

- Plans and specs are 30% complete.

G. Project #195 Front Lobby Expansion

- The project is complete and well received for accessibility, security, explanation of District, and friendliness. District Staff personally opens the door for all visitors.

H. Project #196 Installation of Backup Power and Pumping Capability

- Plans and specs are 30% complete.

I. OCSD Proposed Transfer of Fairview Trunk

- OCSD will be notifying the District of its decision regarding the portion of the trunk under the 405 freeway. CMSD will be reviewing CCTV and performing a visual inspection of the line in order to complete a condition assessment and prepare an engineer's estimate to bring the line up to industry standard.

PUBLIC COMMENTS

XVII. This is the time to receive any comments from members of the public.

XVIII. Discuss items for next Operations Committee meeting.

Next Meeting Date – July 17, 2012

CR Transfer

To: Javier Ochiqui
 From: CR Transfer Inc.
 Jurisdiction: Costa Mesa Sanitary District (9)
 Month/Year: May-12

Recycling Report

	Recycle	Tons
Commodity	Percentage	Recycled
Newspaper	9.61%	323.70
Cardboard	7.38%	248.56
Mixed Paper	12.53%	421.97
Glass	4.17%	140.54
PET	0.95%	31.83
HDPE	0.84%	28.16
Aluminum Cans	0.27%	9.18
Metal	0.68%	22.93
Tin	1.82%	61.19
Greenwaste	10.10%	340.16
Wood	3.01%	101.40
Mixed Plastics	2.77%	93.30
Totals	54.14%	1822.91

Total Tonnage	3366.77
Recycled Tonnage	1822.91
Landfill Tonnage	1543.86

CR Transfer

To: Javier Ochiqui
 From: CR Transfer Inc.
 Jurisdiction: Costa Mesa Sanitary District Santa Ana Heights (11)
 Month/Year: May-12

Recycling Report

	Recycle	Tons
Commodity	Percentage	Recycled
Newspaper	3.91%	8.46
Cardboard	5.58%	12.06
Mixed Paper	9.08%	19.63
Glass	5.41%	11.69
PET	0.82%	1.76
HDPE	1.21%	2.61
Aluminum Cans	0.33%	0.72
Tin	2.12%	4.58
Greenwaste	14.02%	30.32
Wood	5.03%	10.88
Mixed Plastics	4.46%	9.65
Totals	51.97%	112.36

Total Tonnage	216.20
Recycled Tonnage	112.36
Landfill Tonnage	103.84

CMSD WASTE DIVERSION REPORT

2012

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Total Tonnage	3,266.02	2,816.65	3,159.86	3,256.32	3,582.97								16,081.82
Recycled Tonnage	1,764.63	1,625.05	1,707.09	1,759.01	1,935.27	-	-	-	-	-	-	-	8,691.05
Landfilled Tonnage	1,423.29	1,291.60	1,452.77	1,497.31	1,647.70	-	-	-	-	-	-	-	7,312.67
Recycled %	54.03%	54.14%	54.02%	54.02%	54.01%								54.04%



COSTA MESA SANITARY DISTRICT

...an Independent Special District

Memorandum

To: Scott Carroll, General Manager

From: Isidro Gallardo, Ordinance Enforcement Officer *GALLARDO*

Date: June 11, 2012

Subject: Ordinance Enforcement Report

This report summarizes major points for three ordinance enforcement topics covering Scavenging, Graffiti, and Trash Container Enforcement.

Scavenging: In the month of May, there were no calls to the District HQ to report scavenging activity. However, there were incidents I observed directly; the majority of the scavenging incidents listed below were not individuals who are trying to make a business from recycling materials. There were no citations issued in the month of May.

Areas and times where scavenging was observed by the OEO:

DATE	TIME	ADDRESSES	Citation Issued
05/01/2012	07:10am	1933 Meyer Pl	No
	09:20am	2272 Miner St (alley)	No
05/08/2012	06:45am	1700 Kenwood Pl	No
05/17/2012	07:35am	3000 Royal Palm Dr (alley)	No
05/23/2012	08:00am	2420 Orange Ave	No
05/25/2012	07:15am	3000 Fillmore Way (alley)	No

Graffiti: (Update) CR&R maintenance staff has begun removing graffiti found on approximately 13-15 trash bins on the 700 block of Scott Pl (between Wallace Ave & Placentia Ave). Attached you will find pictures of the work they are doing. I will continue to monitor CR&Rs progress.

Trash Container Enforcement: In the month of May, there were five complaints that came into the District HQ to report addresses that leave their trash bins (t/b) in public sight (p/s). I made a site visit to each address:

2726 Starbird Dr -Tagged w/ 1st & 2nd Notice to achieve compliance
1044 Concord St -No t/b in p/s
175 Virginia Pl -Spoke to resident regarding t/b and will comply
3019 Samoa Pl -No t/b in p/s
867 Prospect Pl -Spoke to resident regarding t/b and will comply

I will continue to monitor the above addresses as well as previous complaints to ensure compliance. Also, a resident in the "Lower Birds" neighborhood (Albatross Dr & surrounding streets) of Mesa Verde has contacted me and requested I enforce the screening of trash bins in the area. I will make the area a priority in the upcoming weeks.

A summary of the courtesy notice process for the District OEO is provided in the following chart and demonstrates the effectiveness of a "1st Notice":

May 1-30, 2012	1 st Notice	2 nd Notice	Courtesy Letter
South of Wilson St.	4	0	0
Wilson St. to Adams Ave.	6	1	0
Adams Ave. to Sunflower Ave.	2	0	0

700 Block of Scott Pl-Graffiti Removal



May 2012 Scavenging CFS

Calls For Service with citation issued:

Address	CAD #	DR #	RD	Dispo	Date	Time
NONE		NONE				

Calls For Service with no arrest/citation:

Address	CAD #	DR #	RD	Dispo	Date	Time
711 W 17TH ST	LPD120520035982		1	UTL	05/20/12	15:07
		RD 1 = 1				
1760 POMONA AV	LPD120509033039		2	UNF	05/09/12	23:04
		RD 2 = 1				
1765 SANTA ANA AV	LPD120520035844		5	UTL	05/20/12	1:24
		RD 5 = 1				
325 E 20TH ST	LPD120522036355		6	CAN	05/22/12	6:01
		RD 6 = 1				
REPUBLIC AV&W WILSON ST	LPD120529038170		10	GOA	05/29/12	1:36
		RD 10 = 1				
371 HAMILTON ST	LPD120506032271		11	PAWC	05/06/12	20:57
		RD 11 = 1				
WESTMINSTER AV&MONTE VISTA AV	LPD120531038680		12	GOA	05/31/12	8:24
		RD 12 = 1				
229 W WILSON ST	LPD120531038657		13	GOA	05/31/12	0:29
2380 NOTRE DAME RD	LPD120509032840		13	UTL	05/09/12	7:34
		RD 13 = 2				
1545 LUKUP LN	LPD120522036452		15	GOA	05/22/12	13:15
2553 ANACAPA DR	LPD120519035772		15	PAWC	05/19/12	21:06
2553 ANACAPA DR	LPD120503031397		15	PAWC	05/03/12	14:06
2575 SAN CLEMENTE DR	LPD120523036684		15	UTL	05/23/12	12:39
		RD 15 = 4				
3020 GRANT AV	LPD120504031644		21	UTL	05/04/12	11:04
3020 GRANT AV	LPD120518035326		21	GOA	05/18/12	11:17
AUGUSTA ST&VAN BUREN AV	LPD120504031665		21	GOA	05/04/12	12:06
		RD 21 = 3				

Grand Total = 16

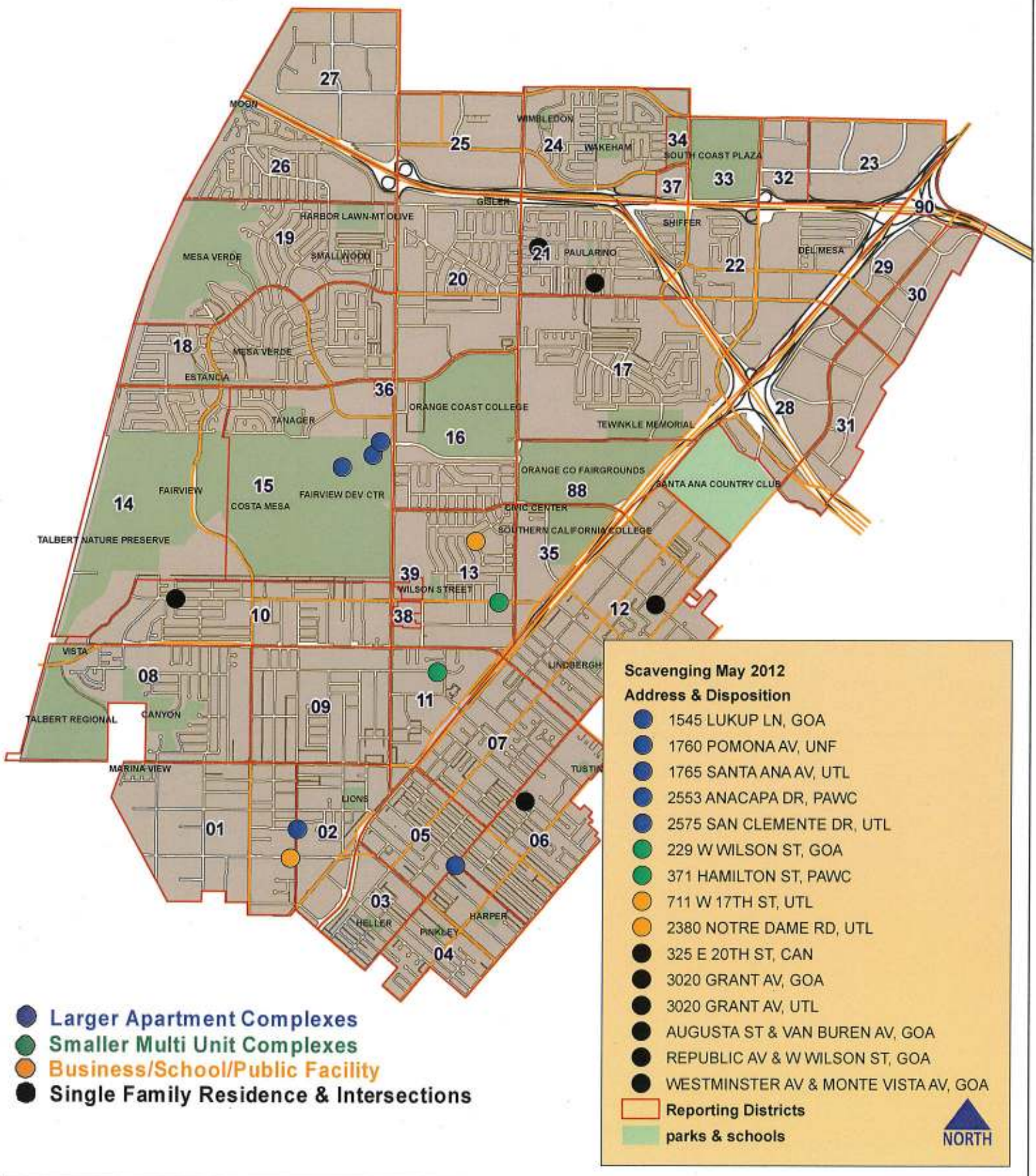
Dispo Translation:

CI - Citation Issued
 UTL - Unable To Locate
 GOA - Gone On Arrival
 PAWC - Party Advised, Will Comply
 RTFAR - Report To Follow Arrest

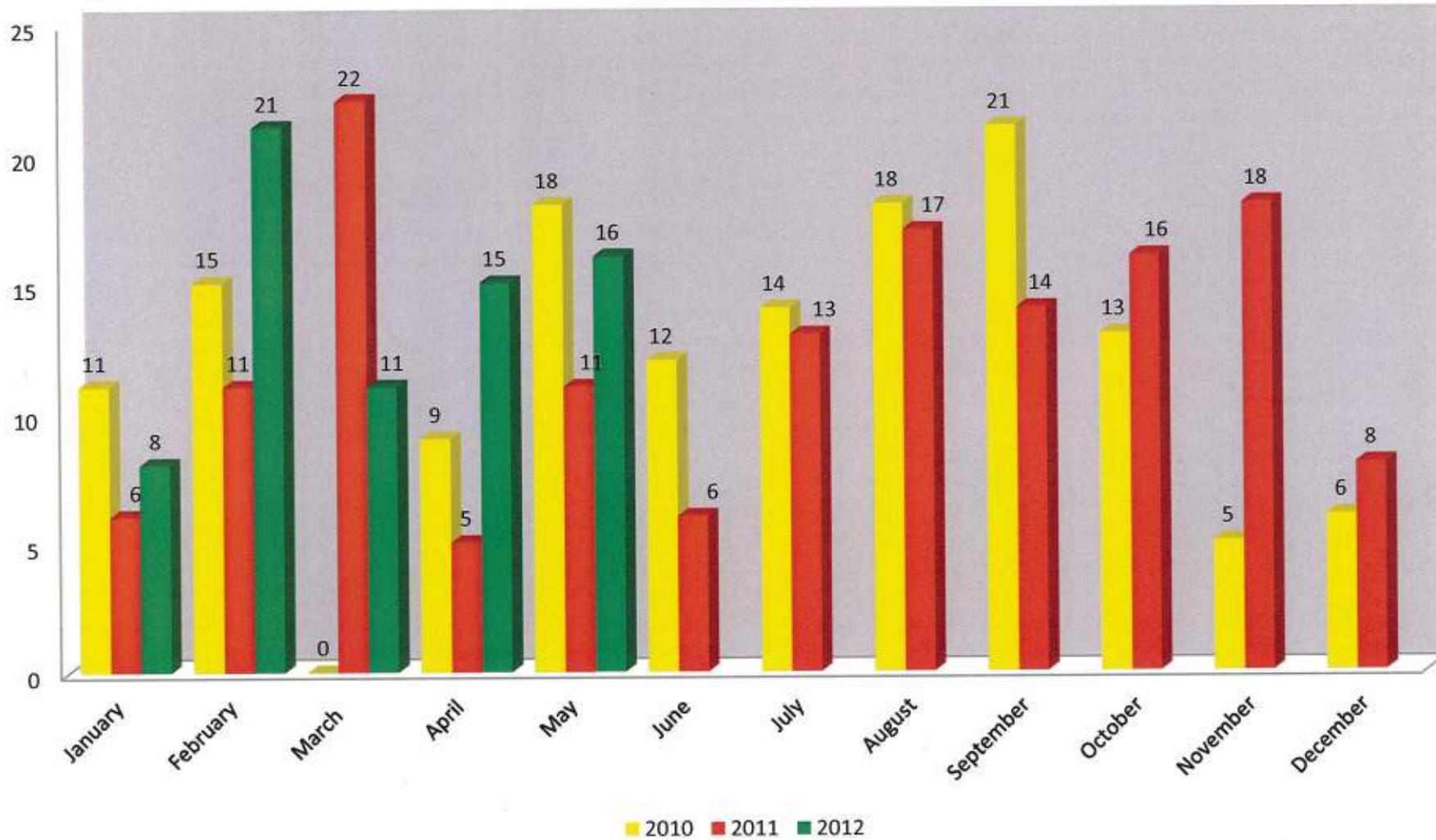
Key: Larger Apartment Complexes
 Smaller Multi Unit Complexes
 Business/School/Public Facility
 Single Family Residence & Intersections



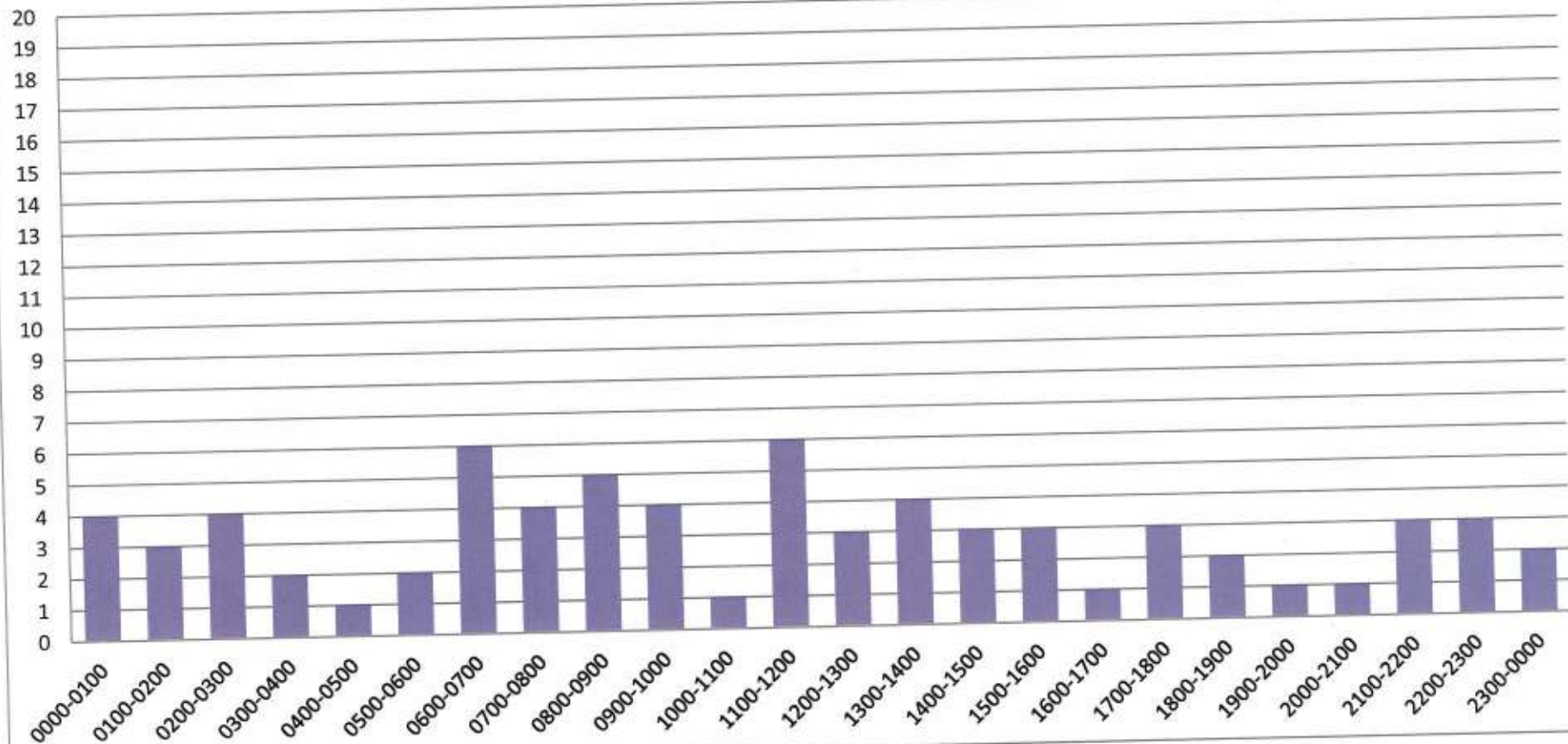
Costa Mesa Police Department Scavenging CFS May 2012



Scavenging Year over Year Comparison



2012 Events by Time (January - May)





COSTA MESA SANITARY DISTRICT

...an Independent Special District

Memorandum

To: Operations Committee
From: Scott Carroll, General Manager 
Date: June 19, 2012
Subject: Solid Waste Facts & Figures

Total households served:	Single family:	16,222
	Multifamily:	<u>5,294</u>
	Total:	21,516

Cart Inventory

35 gallons:	643
60 gallons:	28,581
90 gallons:	<u>14,488</u>
Total:	43,712

Waste Characterization

Costa Mesa:	54.14%
Santa Ana Heights:	51.97%

Fleet

Diesel Automated Side Loaders:	3
CNG Automated Side Loaders:	5

Composting Bins Sold (July 1, 2010 – May 31, 2012): **759**

Vermicomposting Bins Sold (January 1, 2011 – May 31, 2012): **42**

2010 total number of telephone books recycled: **10,721**

2011 total number of telephone books recycled: **5,100**

2011 total solid waste tonnage collected: **40,381**

2011 total recycled tonnage: **21,734**

Protecting our community's health and the environment by providing solid waste and sewer collection services.

www.cmsdca.gov

2011 total landfilled tonnage: **18,647**

2011 Household Hazardous Waste (HHW) Door-to-Door (DTD) Collections: **16**
Total pounds recycled: **1,033.50**

2010 HHW Permanent Drop-off site collections: **2,565**

2011 total tonnage of large items collected: **313.78**
Total tonnage recycled white goods: **29.56**

Residential		Full Rate	Franchise Fee	Residential		Net Rate
1	Placentia	21.72	15%	1	Anaheim	19.53
2	Stanton	20.64	10%	2	Stanton	18.85
3	Garden Grove	19.99	7%	3	Huntington Bch	18.82
4	Cypress	19.97	8%	4	Santa Ana	18.73
5	CMSD	19.95	0%	5	Garden Grove	18.54
6	Villa Park	19.55	7%	6	Yorba Linda	18.48
7	Anaheim	19.53	0%	7	Placentia	18.46
8	Yorba Linda	19.45	5%	8	Cypress	18.37
9	Huntington Bch	18.82	0%	9	Villa Park	18.18
10	Santa Ana	18.73	0%	10	Fountain Valley	18.16
11	Laguna Niguel	18.56	5%	11	Laguna Niguel	17.91
12	Fullerton	18.51	7%	12	Laguna Beach	17.21
13	La Habra	18.40	8%		Fullerton	17.21
14	Brea	18.21	10%	13	La Habra	17.02
15	Fountain Valley	18.16	0%	14	CMSD	16.96
16	San Juan Cap	17.76	5%	15	San Juan Cap	16.98
17	San Clemente	17.73	5%	16	San Clemente	16.64
18	Seal Beach	17.30	7%	17	Brea	16.39
19	Laguna Beach	17.21	0%	18	Seal Beach	16.09
20	La Palma	16.55	5%	19	La Palma	15.76
21	Buena Park	15.62	5%	20	Dana Point	15.11
22	Aliso Viejo	15.16	5%	21	Laguna Hills	14.95
23	Dana Point	15.11	0%	22	Tustin	14.81
24	Laguna Hills	14.95	0%	23	Buena Park	14.80
25	Tustin	14.81	0%	24	Midway City	14.75
26	Midway City	14.75	0%	25	Aliso Viejo	14.40
27	Lake Forest	13.76	5%	26	Lake Forest	13.07
28	Rancho SM	13.24	5%	27	Ranch SM	12.58
29	Los Alamitos	12.28	0%	28	Los Alamitos	12.28
30	Mission Viejo	12.11	5%	29	Orange	11.98
31	Orange	11.98	0%	30	Mission Viejo	11.51
32	Irvine	11.81	5%	31	Irvine	11.22
33	Laguna Woods	10.00	0.05	32	Laguna Woods	9.50
34	Newport Beach	NA	5%	33	Newport Beach	NA
Average		16.74		Average		15.92
Median		17.30		Median		16.64

Month	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	Cost
Telephone Book Recycling					Event								
CMSD Newsletter				x									
Website: CMSD/City of CM				x	x	x							
OC Register/ Daily Pilot													
Flyer				x	x	x							
Mesa Water Insert													
Composting Workshops	Event							Event					
CMSD Newsletter					x				x				
Website: CMSD/City of CM	x	x	x	x	x	x	x	x	x	x	x	x	
OC Register/ Daily Pilot		x						x			x		
Flyer	x	x	x	x	x	x	x	x	x	x	x	x	
Residential FOG Collection Event					Event								
CMSD Newsletter					x								
Website: CMSD/City of CM					x	x	x						
OC Register/ Daily Pilot				x									
Flyer				x	x	x	x						
Mesa Water Insert													
Christmas Tree Collection					Event								
CMSD Newsletter					x								
Website: CMSD/City of CM					x	x	x						
OC Register/ Daily Pilot													
Flyer													
Mesa Water Insert													
CR&R Banner				x	x	x							
Community Run										Event			
CMSD Newsletter									x				
Website: CMSD/City of CM									x	x			
OC Register/ Daily Pilot													
Flyer									x	x			
Mesa Water Insert													
Booth										x			

FY 12/13 CMSD EVENTS CALENDAR

Month	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	
OC Fair	Event												
CMSD Newsletter	x	x										x	
Website: CMSD/City of CM	x	x										x	
OC Register/ Daily Pilot													
Flyer	x	x										x	
Lion's Fish Fry												Event	
CMSD Newsletter											x	x	
Website: CMSD/City of CM													
OC Register/ Daily Pilot											x	x	
Flyer													
Tours of MRF	Event												
CMSD Newsletter					x				x				
Website: CMSD/City of CM	x	x	x	x	x	x	x	x	x	x	x	x	
OC Register/ Daily Pilot													
OC Jazz Festival		Event											
CMSD Newsletter	x	x											
Website: CMSD/City of CM													
OC Register/ Daily Pilot													
Flyer	x	x											
Vanguard Sustainability Conference								Event					
CMSD Newsletter							x						
Website: CMSD/City of CM													
OC Register/ Daily Pilot													
Flyer							x						

2012 OC Fair Agriculture & Horticulture Lecture Schedule (Silo Overhang)

SPEAKING DEMONSTRATIONS MAY BE UP TO 45 MINUTES IN LENGTH

Date	Time	Lecture Topic
Friday, July 13	1:30	VermiComposting; The Gardener's Black Gold
	5:30	Composting: From Garbage to Garden
Saturday, July 14	1:30	VermiComposting; The Gardener's Black Gold
Sunday, July 15	1:30	VermiComposting; The Gardener's Black Gold
Wednesday, July 18	1:30	Composting: From Garbage to Garden
Friday, July 20	1:30	VermiComposting; The Gardener's Black Gold
Saturday, July 21	1:30	Composting: From Garbage to Garden
	3:30	VermiComposting; The Gardener's Black Gold
Sunday, July 22	1:30	Composting: From Garbage to Garden
	5:30	VermiComposting; The Gardener's Black Gold
Thursday, July 26	3:30	Composting: From Garbage to Garden
Saturday, July 28	1:30	VermiComposting; The Gardener's Black Gold
	3:30	Composting: From Garbage to Garden
Sunday, July 29	1:30	VermiComposting; The Gardener's Black Gold
Wednesday, Aug. 8	5:30	Composting: From Garbage to Garden
Thursday, Aug. 9	3:30	VermiComposting; The Gardener's Black Gold
Friday, Aug. 10	5:30	VermiComposting; The Gardener's Black Gold
Saturday, Aug. 11	3:30	Composting: From Garbage to Garden
	5:30	VermiComposting; The Gardener's Black Gold
Sunday, Aug. 12	1:30	Composting: From Garbage to Garden
	3:30	VermiComposting; The Gardener's Black Gold



Costa Mesa Sanitary District

... an Independent Special District

May 25, 2012

Board of Directors

Robert Ooten
James Ferryman
Mike Scheafer
James Fitzpatrick
Arthur Perry

The Honorable Loni Hancock
California Senate – 9th District
State Capitol
Sacramento, CA 95814

RE: SB 1118 (Hancock)—SUPPORT

Staff

Scott C. Carroll
General Manager

Dear Senator Hancock:

Joan Revak
Office Manager
Clerk of the District

Robin B. Hamers
District Engineer
(949) 631-1731

Alan R. Burns
Legal Counsel

Marcus D. Davis
Treasurer

Phone
(949) 645-8400
Fax
(949) 650-2253

Address
628 W. 19th Street
Costa Mesa, CA
92627-2716

On behalf of the Costa Mesa Sanitary District (CMSD) Board of Directors, I am writing to support the bill you authored, SB 1118 (Hancock) that will stop illegal dumping of mattresses. The Costa Mesa Sanitary District is an independent special district, located in the heart of Orange County, that provides sewer and solid waste/recycling collection services to over 116,000 residents in the City of Costa Mesa and small portions of the City of Newport Beach and the unincorporated County of Orange.

Our community, like so many others in California, is experiencing illegal dumping of mattresses in the alleyways and public right of way, which causes a terrible blight in neighborhoods. Cities like Costa Mesa and Newport Beach are spending hundreds of thousands of dollars collecting and disposing of abandoned mattresses. The money and staff hours spent on discarded mattresses can be better used on important services such as street maintenance, sidewalk repairs, storm drain cleaning, and other vital services. To illustrate this problem in our community, attached are some recent pictures of discarded mattresses.

In addition, mattresses are bulky items that take up a lot of space in landfills because they do not compact well, and springs from mattresses can easily catch in equipment used in landfill and incinerator operations. While some mattress components have value, including steel springs and polyurethane foam, there is still a net cost to collect and recycle them. That said, 80-90% of mattress parts are recyclable if they are separated and creates new employment.

The Costa Mesa Sanitary District strongly supports SB 1118.



The Honorable Loni Hancock
California Senate – 9th District
Support SB 1118 (Hancock)
May 29, 2012
Page 2 of 2

Sincerely,



Robert J. Ooten
President

Attachment: Pictures of illegally discarded mattresses

CC: The Honorable Alan Mansoor (fax: 916.319.2168)
Assemblyman Mansoor Chief of Staff, District Office (fax: 714.668.2104)
The Honorable Steve Harman (fax: 916.445.9263)
Senator Harman Chief of Staff, District Office (fax: 714.957.4560)
CMSD Board of Directors
City of Costa Mesa City Council
City of Newport Beach City Council
California Special Districts Association [fax: 916.442.7889]

SB 1118 (Hancock)
ILLEGAL DUMPING OF MATTRESSES
COSTA MESA SANITARY DISTRICT
May 21 – May 25, 2012



328 Avocado St, Costa Mesa



566 Joann St, Costa Mesa



2269 Miner St, Costa Mesa



Hamilton/Charle St, Costa Mesa



COSTA MESA SANITARY DISTRICT

...an Independent Special District

Memorandum

To: Operations Committee
From: Scott Carroll, General Manager 
Date: June 19, 2012
Subject: Sewer Facts & Figures

Miles of forced mains:	4.8
Miles of gravity sewers:	219.4
Estimated total miles of laterals:	108.8
Number of service lateral connections:	24,870
Number of sewer manholes:	4,650
Wastewater flow:	10.1 million gallons per day
Number of Food Service Establishments (FSE)	449
Percentage of sewer system constructed between the years of:	
2000 – Present:	2%
1980 – 1999:	3%
1960 – 1979:	46%
1940 – 1959:	49%

<u>Pump Stations</u>	<u>Gallons per minute</u>
Mendoza 2899 Mendoza Dr	875
Gisler 3003 Iowa Street	250

<u>Pump Stations</u>	<u>Gallons per minute</u>	
Adams 2054 Adams Ave	500	
Harbor 521 Wilson	1,700	
Canyon 999 Canyon	800	Planned abandonment
Valley 1140 Aviemore Terrace	45	Planned abandonment
President 2034 President Pl	634	Planned abandonment
Victoria 550 Victoria St	785	
Elden 146 Mesa Dr	3,750	
Irvine 2677 Irvine Ave	1,800	
Santa Ana 2449 Santa Ana Ave	1,430	
23 rd 2401 23 rd St, NB	550	
California 1803 California St	269	
South Coast Plaza	460	
19 th 1035 19 th St	100	Planned abandonment
Iowa 1601 Iowa St	150	
Westbluff 1059 Westward Ln	160	Planned abandonment
Sea Bluff 1099 Seabluff Dr	110	Planned abandonment

Operations Committee

June 19, 2012

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<u>Pump Stations</u>	<u>Gallons per minute</u>
City Yard	85
2300 Placentia	
21 st	825
21 st Street, NB	

CMSD Fleet & Equipment

Unit 1001	1992 Vactor combination truck
Unit 1002	Portable Generac Generator 190
Unit 1003	Portable Generac Generator 85
Unit 1004	2002 Chevrolet Silverado 3500
Unit 1005	1990 Ford Water Truck
Unit 1006	Arrowboard
Unit 1007	Bypass Pump w/hose
Unit 1008	Bypass Pump w/hose
Unit 1009	2008 Chevrolet Silverado 2500
Unit 1010	Bypass Pump w/hose
Unit 1011	Portable Multiquip Generator 67

<u>Service Area</u>	<u>No. of Parcels</u>	<u>Housing Units</u>	<u>Building Sq. Ft. Area</u>
Commercial	1,570	0	32,141,057
Industrial	789	0	9,601,103
Multi-Family	5,922	26,514	
Single Family	17,788	18,358	
Trailer	765	996	



Broadway/Flower Street



Esther St/Walnut St



Broadway/Magnolia St



15th Street/Palmer Street



19th Street/Flower Street

5/2/2012

CMSD CIP Timeline

		Budget	Beginning of Design	Design Completion	Out to Bid	Bid Opening	Begin Construction	End of Construction
Budget Year 2011-2012								
CMSD#129	Bristol Street Sewer Replacement, Phase II	\$355,000	completed	completed	9/23/2011	10/25/2011	1/23/2012	6/29/2012
CMSD#164	Root Control Program	\$121,400	completed	completed	11/7/2011	12/5/2011	4/2/2012	6/29/2012
CMSD#171	Irvine Force Main Rehabilitation	\$250,000	completed	completed	1/9/2011	2/14/2012	4/17/2012	6/8/2012
CMSD#190	Canyon Force Main Rehabilitation	\$75,000	completed	completed	3/30/2012	5/1/2012	7/9/2012	8/31/2012
CMSD#192	System Wide Sewer Reconstruction, Phase II	\$1,000,000	in design	6/11/2012	6/22/2012	7/24/2012	9/4/2012	1/15/2013
CMSD#193	Seismic Retrofit at Pumping Stations	\$100,000	in design	7/1/12	7/30/2012	8/31/2012	10/1/2012	11/30/2012
Budget Year 2012-2013								
CMSD#101	West Side Pumping Station Abandonment Preliminary Engineering	\$400,000	6/15/12	6/15/13				
CMSD#191	Condition Assessment of Force Mains	\$100,000						6/30/2013
CMSD#196	Installation of Backup Power and Pumping Capability	\$1,000,000	4/23/12	6/30/12	8/13/2012	9/14/2012	10/31/2012	1/1/2013
CMSD#197	System Wide Sewer Reconstruction, Phase III	\$670,000	7/15/12	3/15/13	4/15/2013	5/15/2013	7/1/2013	11/15/2013
	Sub-Total	\$4,071,400.00						

Rob Hamers

From: Rob Hamers [robh2@cox.net]
Sent: Tuesday, May 08, 2012 10:26 AM
To: RBH, Inc.
Subject: please print email
Attachments: CCM 2011-2012 review.bmp; ATT00139.htm; 103039_103040_20080324_0_000028_a.jpg; ATT00142.htm; 103039_103040_20080324_1_000100_a.jpg; ATT00145.htm; 103039_103040_20080324_2_000131_a.jpg; ATT00148.htm

Begin forwarded message:

From: Rob Hamers <robh2@cox.net>
Date: May 8, 2012 10:24:42 AM PDT
To: Scott Carroll <scarroll@cmsdca.gov>
Cc: Yefim Tsalyuk <itfeng@verizon.net>, "RBH, Inc." <rbhinc@pacbell.net>
Subject: CCM East Side Street Maintenance Project Review

Hi Scott,

All the Grade 5 repairs inside the limits of the City street maintenance project were either handled in Phase I of our Grade 5 project or will be handled within Phase II of our project by cured-in-place-pipe or short liners with the exception of one repair that can be accomplished inside a manhole. Therefore, we appear to be okay and will not dig through any new City slurry seal. The attached pictures are of the repair that will be accomplished in the manhole.

However, there are a lot of Grade 4s that are shown in blue in the attached maps and we did not view these videos. If you desire, we can view these videos.

Thank you,

Rob Hamers, PE

DISTRICT ENGINEER | COSTA MESA SANITARY DISTRICT

628 W. 19th Street, Costa Mesa, CA 92627

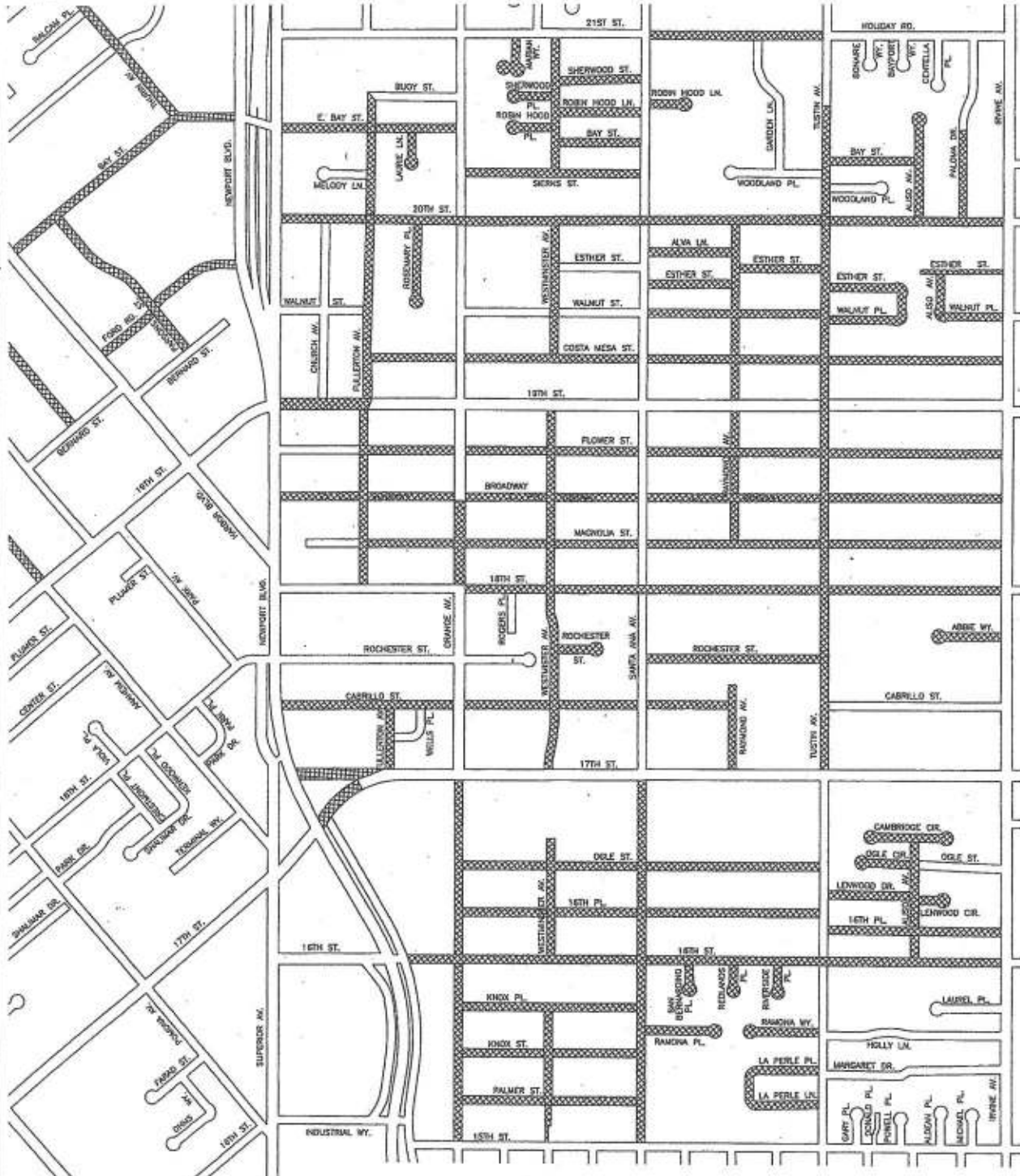
phone (949) 631-1731 | cell (714) 293-2727 | fax (949) 548-6516

Irvine office email: robh2@cox.net | Costa Mesa office email: rbhinc@pacbell.net



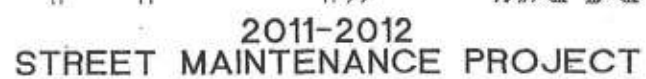
CITY OF COSTA MESA

Public Services/Engineering



 WORK AREA

2011-2012
STREET MAINTENANCE PROJECT

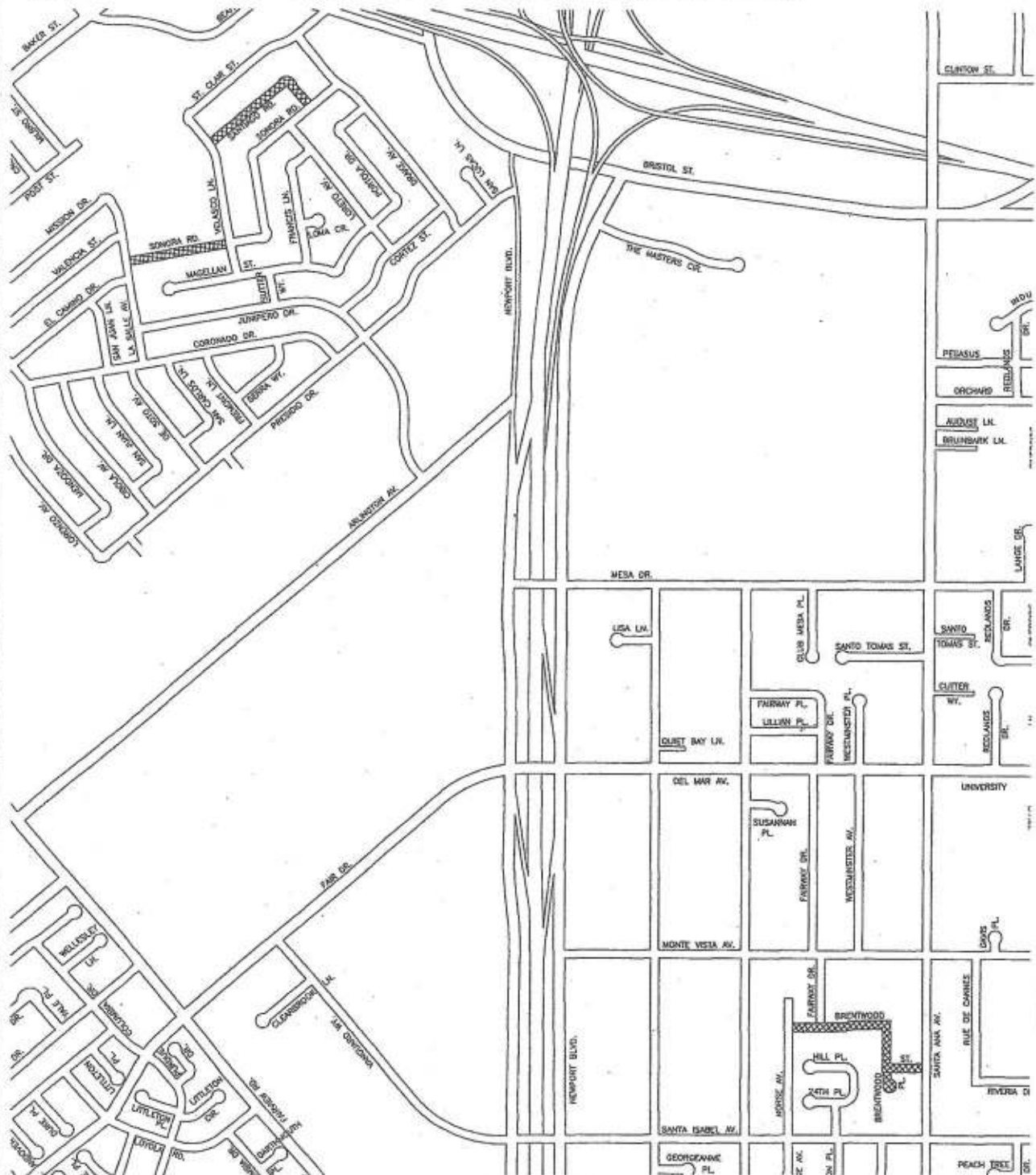


10/15/11



CITY OF COSTA MESA

Public Services/Engineering



2011-2012
STREET MAINTENANCE PROJECT

WORK AREA



CITY OF COSTA MESA

Public Services/Engineering



2011-2012
STREET MAINTENANCE PROJECT

— GRADE 5
— GRADE 4



CITY OF COSTA MESA

Public Services/Engineering



2011-2012
STREET MAINTENANCE PROJECT

 WORK AREA

Page 3 of 3

10/18/11

 GRADE 5

 GRADE 4

COSTA MESA

CHARLE ST

103039 -> 103040

VCP Vitrified Clay Pipe, C Circular 8"

Manhole

01:26p

06.14.2007

0'00"

COSTA MESA

CHARLE ST

103039 -> 103040

VCP Vitrified Clay Pipe, C Circular 8"

General Observation, within 8 inch: NO,
Remark: MANHOLE CHANNEL IS DEFECTIVE

01:28p

06.14.2007

1'04"

COSTA MESA

CHARLE ST

103039 -> 103

VCP Vitrified Clay Pipe, C Circular

Hole Soil Visible, at 08 o'clock, within 8
inch: NO

10:23p

03.06.2007


1' 11"



COSTA MESA SANITARY DISTRICT

MEMORANDUM

To: Operations Committee

Via: Scott Carroll, General Manager 

From: Robin B. Hamers, District Engineer

Date: June 19, 2012

Subject: **Inflow/Infiltration Prevention for 2012-2013**

Summary

Orange County Sanitation District (OCSD) as well as the State Water Resources Control Board under the Waste Discharge Requirements (WDR) prohibits inflow and Infiltration (I/I) of surface and groundwater into the sewer system. Treating wastewater is costly and the addition of surface water causes OCSD to construct additional capacity at its treatment plants.

I/I also negatively affects the performance of the system by taking up the capacity that was designed for wastewater. The District's I/I program has been active since the winter of 2009-2010 and this report outlines the proposed steps for the winter of 2012-2013.

Staff Recommendation

The Directors approve the following actions for 2012-2013:

1. District Staff to plug and seal an additional 200 manholes this coming winter to reach a total of 1,008 manholes plugged and sealed out of 4,705 manholes District-wide. Attached is a map showing the currently plugged and sealed manholes.
2. District Staff to recheck the existing 802 manholes that are plugged and sealed.
3. District Staff to purchase standard manhole covers without vent holes to alleviate the need to plug the vent holes.

*Protecting our community's health and the environment by providing
solid waste and sewer collection services.*

www.cmsdca.gov

4. Staff to prepare a cost analysis and consider welding closed the vent holes in the existing covers. Staff has previously attempted to permanently glue the plugs in place.
5. Staff to update the Board of Directors and Orange County Sanitation District as appropriate.

Analysis

Infiltration is groundwater (underground water) entering into sewer lines through cracks and/or separated joints in the sewer lines. Groundwater may be from storm water infiltrating down through the soil or from naturally occurring groundwater. Inflow is surface water entering through the vent holes in the cover and water entering through the annular space between the ring and cover. Inflow generally occurs during storms that flood streets and may also be caused by illegal connections. An example of an illegal connection is a property owner solving his backyard flooding problem by installing a drain and connecting it to the sanitary sewer.

When the District televised the sewer system from 2006-2009, only two instances of infiltration were discovered and these sources of water were immediately terminated. The source of I/I water in the District's system is inflow and this conclusion is supported by extra runtimes in the pumping stations during wet weather.

The District's Inflow Reduction Program is an attempt to reduce the amount of surface water entering the sewer system during winter storms. Many streets in Costa Mesa are relatively flat and flood during large storms. Standing water from curb to curb where manholes are located causes large volumes of water to enter the system through the vent holes and the space between the ring and cover.

The cure for flooded streets is additional storm drain catch basins and pipelines but the City has struggled with funding these improvements. Therefore, Staff believes plugging and sealing manholes is the best course of action to prevent inflow. The risk in plugging and sealing manholes is the lack of oxygen circulation in the system and the inability to see a backup in the system since a backup manifests itself through these same vent holes. The lack of oxygen causes a buildup in hydrogen sulfide, which leads to more pronounced odors and corrosion in the system.

The District's Inflow Reduction Program has successfully prevented water from mid level storms from entering the system and these results have been reported to the Board and Orange County Sanitation District. This year's effort will be a continuation of past practices.

It is noted that the winter of 2011-2012 contained no storms larger than one inch of rainfall. Calculations of excess pumping station runtimes and determination of water entering the sewer system is limited to storms over one inch due to the minor impact of small storms.

The 200 additional manholes are located in the red and maroon areas shown in the attached OCSD Percent Rain Ingress Map, where maroon represents 4.01%-16.29% of rain is entering the sewer system and red represents 3.01%-4.00% of rain is entering the sewer system. OCSD's goal is to have their member agencies limit rain ingress into the sewer at less than 2%, which CMSD has successfully achieved and which was previously reported to the Board of Directors.

The streets and areas within which plugging and sealing will occur prior to the upcoming winter season are as follows:

- Area at west end of Adams Avenue
- Area between Baker and Watson
- Fairgrounds and Arlington
- Logan Avenue area
- Mendoza Pumping Station area; including Presidio, Coronado, El Camino, Mission, Cheyenne, etc.

Staff anticipates plugging and sealing an additional 200 manholes in the 2013-2014 fiscal year subject to the results of the forthcoming winter. These areas may include the area adjacent to the John Wayne Airport and the Newport/73/405 triangle.

Strategic Plan Element & Goal

This item complies with Strategic Plan Element 1.0, *Sewer Infrastructure* and Goal No. 1.4 *System Wide Sewer Replacement and Repair Program*. The strategy for this Strategic Element is

"We will do this be the careful management of the collection infrastructure using prudent planning and maintenance, with financial strategies to maintain sufficient capacity and respond to changing regulatory demands."

Legal Review

Legal review of this program is generally unnecessary.

Financial Review

For fiscal year 2012-13 the inflow reduction budget is \$26,000. The District has budgeted 80 hours of engineering hours at a cost of approximately \$8,000 and 280 hours of inspection time at a cost of approximately \$18,000.

Committee Recommendation

Not applicable

Public Notice Process

Copies of this report are on file and will be included with the agenda packet for the June 19, 2012 Operations Committee meeting at District Headquarters and on the District's website.

Alternative Actions

1. Refer the matter back to staff for additional information

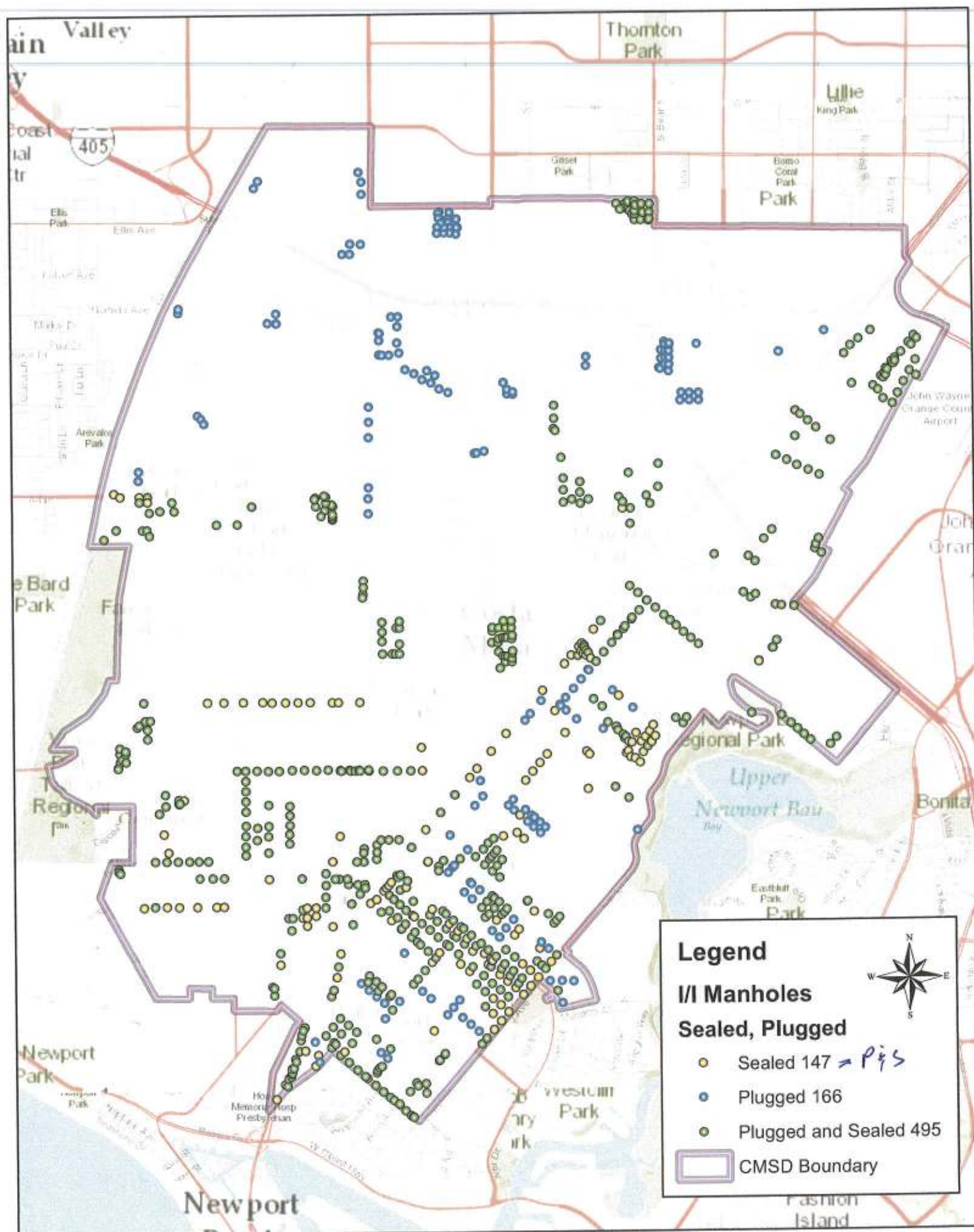
Attachments:

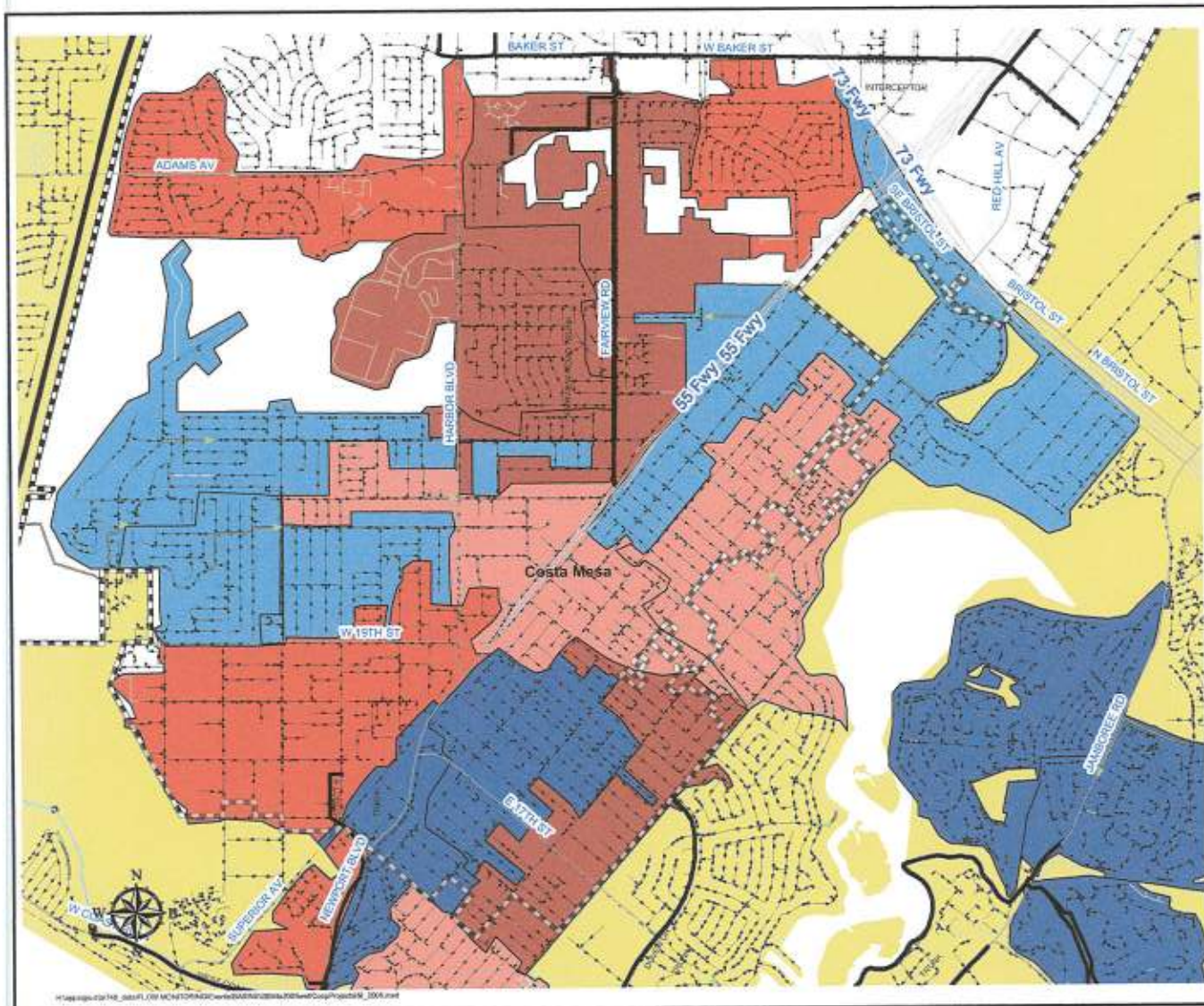
1. Map of plugged and sealed manholes
2. OCSD Percent Rain Ingress Map
3. OCSD Yearly Letter
4. Picture of 18th & Whittier 1/18/10
5. Private property permission letter

Reviewed by:



Teresa Gonzalez
Accounting Manager





Percent Rain Ingress Over Long Term Flow Monitoring Basins Winter 2004/2005

LEGEND

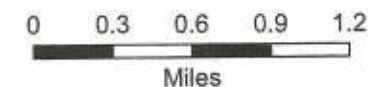
- OCSD Sewers
- OCSD FM
- GISDBA.ssForceMainNode
- ocsd_major_streets
- ocsd_fwys

% Rain Ingress

- 0.27 - 1.00
- 1.01 - 2.00
- 2.01 - 3.00
- 3.01 - 4.00
- 4.01 - 16.29

City Boundary

- City Bndy
- Costa Mesa
- Fountain Valley
- Huntington Beach
- Irvine
- Newport Beach
- Newport Beach_I
- Santa Ana
- Unincorporated



ORANGE COUNTY SANITATION DISTRICT

Engineering - Geographic Information Systems



ORANGE COUNTY SANITATION DISTRICT

We protect public health and the environment by providing effective wastewater collection, treatment, and recycling.

December 1, 2011

Via Email:
OCSD Primary City/Agency Contacts

SUBJECT: Wet Weather Issues and OCSD Assistance

Orange County Sanitation District (OCSD) needs to continue to minimize the potential for "clearwater" from entering the sanitary sewer system during rain events. We have worked with our member agencies in the past on this subject and want to thank you for your collaboration and help and improvements made by many. Clearwater is any surface flow, runoff, or drainage that does not contain hazardous substances or sewage, and reduces the capacity of sanitary sewers to transport wastewater. Minimizing the excess runoff from entering the collection system is important to all of us in order to comply with the statewide WDR Order for Sewers and its numerous requirements.

Substantial problems including increased operations costs can occur downstream in OCSD's regional collection system and treatment facilities. As a reminder, removing sanitary sewer manhole covers to drain "clearwater" from flooded intersections or other areas is prohibited. While these inflow problems will not be solved overnight, by working as partners, we can collaborate and leverage knowledge to minimize inflow and infiltration of "clearwater" into the sanitary sewer system.

At Risk Areas

Based on recent history in our area a number of factors are contributing to "clearwater" inflow, including the following:

1. Sanitary sewer manhole covers located areas that flood or are in gutter or drainage swales create inflow risks. A significant amount of storm water and even dry-weather urban runoff can enter the sewer system through the vent holes in the cover. This can occur in public as well as private areas such as gated communities and commercial complexes;
2. Uncapped cleanouts on private property sewer laterals, especially cleanouts below the existing ground surface. These open cleanouts can cause large quantities of surface "clearwater" to enter the sewer system.
3. Illegal connections from public or private rain gutters or yard surface drains to the sanitary sewer.

Some Solutions

OCSD is able to provide your city or agency with duct-seal putty to help seal the gap between the manhole cover and frame and rubber stoppers to plug open manhole cover vent holes. We have provided these to our member cities and agencies in the past at no cost and are willing to do so again. Past participants in this program may want to prepare by inspecting these at risk areas where you have duct-sealed or plugged in the past to check their condition, especially in areas that require high frequency cleaning. While this is not a permanent solution to inflow, it can be an effective temporary solution. In at-risk areas standard type sewer manhole covers may need to be sealed better or even replaced with watertight type covers.

Serving
Anaheim
Brea
Buena Park
Cypress
Fountain Valley
Fullerton
Garden Grove
Huntington Beach
Irvine
La Habra
La Palma
Los Alamitos
Newport Beach
Orange
Placentia
Santa Ana
Seal Beach
Stanton
Tustin
Villa Park
Yorba Linda
Costa Mesa
Sanitary District
Midway City
Sanitary District
Irvine Ranch
Water District
County of Orange



recycled paper



OCSD Primary City/Agency Contacts

Page 2 of 2

December 1, 2011

(Below is an example of a sealed and plugged manhole cover)



Uncapped cleanouts are usually discovered by field inspection. Smoke testing can be used by city or agency staff or contractors to identify these areas. Solutions include capping them with water-tight, screw-type covers. Local education programs to residents are also helpful and should be an element in your Sewer System Management Plan as indicated.

Information on Prohibitions and Regulations

OCSD Ordinance No. OCSD-39, Section 203, specifically prohibits the discharge of ground water, surface runoff or subsurface drainage directly or indirectly into OCSD's sewerage facilities unless the discharger has obtained a Dry Weather Urban Runoff Permit or Special Purpose Discharge Permit. Such practices also violate the statewide Waste Discharge Requirements (WDR) Order 2006-0003-DWQ that applies to all cities and agencies enrolled in the statewide WDR program.

Moving Forward

If your city or sewerage agency is interested in participating in the manhole plugging /sealing program, please contact William Cassidy of the Collection Facilities O&M division at 714-593-7641 (wcassidy@ocsd.com).

Mark A. Esquer, P.E., Manager
Collection Facilities O&M

Nick Arhontes, P.E., Director
Facilities Support Services Department

MAE:NJA:pe

H:\dept\fss\Clerical\Wet Weather Correspondence

cc: Jim Ruth, General Manager, OCSD
Jim Herberg, P.E. – OCSD Director of Engineering/Planning/Regulatory Compliance



PERMISSION LETTER

DATE:

PROPERTY ADDRESS: _____

I understand it is prohibited to allow rain water or other surface water runoff to enter sewer manholes through the vent holes or space between the ring and cover. Therefore, I hereby give the Costa Mesa Sanitary District permission to enter my property and plug and seal the openings in the manhole covers of my private sewer.

Printed Name & Title

Signature Date




COSTA MESA SANITARY DISTRICT

...an Independent Special District

Memorandum

To: Operations Committee

Via: Scott Carroll, General Manager 

From: Robin B. Hamers, District Engineer

Date: June 19, 2012

Subject: Sewer Cleaning Program

Summary

With the recent addition of a new maintenance worker, District field crews now total four men including the Maintenance Supervisor. Additionally, the District will soon be purchasing a new sewer cleaning truck (a.k.a. vactor truck) and the combination of the larger crew and new vactor truck allow the District to perform regular sewer line cleaning. Currently, the District's contractor, National Plant Services (NPS), performs all sewer line cleaning.

Staff Recommendation

That the Board of Directors:

1. Direct the General Manager to implement a blended yearly sewer cleaning program as detailed below whereby the District will clean approximately 300,000 linear feet (LF) of sewer per year and NPS will clean approximately 300,000 LF per year.
2. Direct the General Manager to re-negotiate the existing cleaning contract with NPS to effect this change.

Analysis

Currently, the District cleans a portion of the sewers every year, a portion every two years, and a portion every three years. These cycles were developed in combination by the previous Maintenance Supervisor and previous Senior Inspector based on size

of pipe, flows, historical debris and grease buildup, and other factors. The District is just now completing the 2nd cycle under this program.

The present Maintenance Supervisor and staff believe a simpler approach of dividing the District in halves and cleaning one-half each year will decrease travel time and increase efficiency by concentrating work in selected areas rather than having to drive to certain areas just to clean selected sewer lines. Staff also believes cleaning sewers every two years is a safe and reliable practice that will not lead to backups and sanitary sewer overflows.

An analysis of the proposed plan is as follows:

1. Divide the 1.2 million feet of main in half and clean one-half (600,000 LF) per year. The District would then have a 2-year cleaning cycle, which conforms well to the Waste Discharge Requirements (WDR).
2. Have NPS and the District each clean 300,000 LF per year.
3. The District would clean:

$$3,000 \text{ LF/day} @ 3 \text{ days/week} @ 33.3 \text{ weeks/year} = 300,000 \text{ LF}$$

This schedule provides flexibility for staffing, vector maintenance, and other use. The District will continue cleaning hot spots and pump stations.

4. NPS would clean 300,000 LF instead of 600,000 LF per year, which will save the District \$90,000 per year. The contract with NPS allows 90 day notice for termination without cause and NPS would certainly accept a reduced role as opposed to being terminated.
5. EEC would have to produce revised maps and work orders but this would be relatively easy. A cost estimate for this work is not currently available.
6. The District will have to amend its Sewer System Management Plan (SSMP).

Strategic Plan Element & Goal

This item complies with Strategic Plan Element 1.0, *Sewer Infrastructure*, and the strategy for this element states:

"We will do this be the careful management of the collection infrastructure using prudent planning and maintenance, with financial strategies to maintain sufficient capacity and respond to changing regulatory demands."

Legal Review

District Counsel has reviewed this report and the District/NPS sewer cleaning agreement and agrees with the conclusions in this report.

Financial Review

For fiscal year 2012-13 the sewer line maintenance/cleaning budget is \$192,000 and the GIS support budget is \$20,000. The anticipated savings of \$90,000 for the sewer line cleaning would be offset by the additional cost paid to EEC to produce revised maps and work orders and the engineering costs to amend the SSMP. In the future, a budget adjustment will be necessary to provide the necessary funds for the GIS and CMMS support, because the approved budget in the amount of \$20,000 is insufficient to cover these additional costs.

Public Notice Process

Copies of this report are on file and will be included with the entire agenda packet for the June 19, 2012 Operations Committee meeting.

Alternative Actions

1. Leave the sewer cleaning program as is.
2. Refer the matter back to staff for additional information.

Reviewed by:



Teresa Gonzalez, Accounting Manager



#129 Bristol St. Sewer Phase II
(Pipe Bursting)



#171 Irvine Force
Main Rehabilitation